

IN THE SPECIFICATION

Please amend the Specification as follows:

[SPECIFICATION]

[Title, Halo Hanger]

DEVICE FOR SUSPENDING A RECORDER

[a. Background.] Field of the Invention.

_____This invention pertains to the general field of [a neck strap arrangement for carrying a musical instrument or other object. In particular, it provides a new and improved method of] carrying a woodwind musical instrument known as a recorder.

[b. Objects and Advantages.]

[(1)] Description of Prior Art. _

_____The recorder is an instrument that is of such size that it can be carried easily. This instrument is most often used by children in early grade school for instruction in music. Most often the child will purchase a recorder. The child will then carry the recorder to class and carry it in the hand during class. If the child needs to use the hands for another purpose, the recorder is laid down. As such, the recorder is [and] subject to loss, contamination or confusion when play is to be continued. Also, like with anything a child is forced to carry in their hands, the recorder [object] can be inappropriately used as a toy, weapon, or whatever fits the occasion.

Prior art is limited to some resourceful teachers that have simply tied a string around the recorder with some sort of loop that is placed around the child's neck to suspend the recorder. Because the knots may slip, come untied or can not be readily untied, this method has not gained wide support. In addition, after the teacher has tied all the knots required by the students, the teacher has little time left for instruction. Thus, at the present time, there is no suitable means for the hand free carrying of the recorder. Also this method has only been applied to recorders

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possessing a definite ridge along their [its] shaft, and not merely to recorders with a tapered shaft.

[(2)] Objectives.__

_____It is therefore an objective of this invention to provide a device for conveniently carrying a recorder [or any similar object,] with an expanding circumference shaft, from [securely affixed to] a strap that is worn about the neck.

Another objective of the invention is the realization of the above mentioned objective with simple, reliable and inexpensive hardware.

Summary of the Invention.

_____The invention provides a device for carrying a recorder. The device comprises a ring attached to a strap. The user wears the strap around their neck, with the ring in the front. The recorder is pulled apart at the juncture point, the ring is inserted over the upper section of the recorder, and slid towards the mouth piece until it becomes lodged. It becomes lodged because the inner diameter of the ring is smaller than the diameter of the recorder at the mouthpiece. The recorder is then reconnected. The recorder thus becomes suspended from the neck of the user.

[(3)] Advantages. In accordance with these and other objectives, the method and apparatus of this invention consist of a ring and an attached strap. The ring is made of durable material and is of sufficient inside diameter so as to fit, after the strap has been secured to the ring, snugly around the shaft of the mouth piece of the recorder. The ring is secured on the recorder by pulling the recorder apart at its dividing point or sliding it over the lower narrow end and then slipping the ring around the mouth piece section and sliding it up the shaft until it is securely lodged on the shaft. Because the diameter of the shaft increases towards the end where the instrument is blown, the ring will be secure on the recorder shaft between the

fingering holes and the mouth piece. The two pieces of the recorder are then reconnected, if applicable.]

Using the device thus frees both hands of the user. This and other advantages of the present invention will be understood and more appreciated after a consideration of the following drawings and the detailed description of the invention.

[Various other purposes and advantages of the invention will become clear from its description in the specifications that follows, and from the novel features particularly pointed out in the appended claims. Therefore, to the accomplishment of the objectives described above, this invention consists of the feature hereinafter illustrated in the drawings, fully described in the detailed description of the preferred employment and particularly pointed out in the claims. However, such drawings and descriptions disclose only some of the various ways in which the invention may be practiced.]

[c. Description of Drawings.]

[(1)] Brief Description of the Drawings. [This invention together with its features and advantages can be better understood from the following description when read in conjunction with the drawings in which]

FIG. 1 is a perspective view of the ring of the device of the invention.

FIG. 2 is a perspective view of the device of the invention.

FIG. 3 is a perspective view of a recorder being suspended from the device of the invention [attached to a recorder].

[(2)] Detailed Description of the Invention. [The heart of this invention lies in the simple ring, which makes it possible to conveniently attach a strap to a recorder. Thus, the main objective of providing an easy method to carry a recorder is met.]

Referring to the drawings, [wherein the same reference numbers and symbols are used

throughout to designate like parts,] FIG. 1 illustrates the general configuration of the ring 1 before the strap 2 is attached to it [and it is mounted on the recorder A].

The ring 1 is made of durable material [has a surface 3 and 5 of such dimensions] so as to be able [provide strength enough] to withstand [with stand] the rigors and forces that would be [anticipated] anticipated, when the device is in use by elementary age school children. As illustrated in FIG. 1, the ring 1 has an outer surface 3, an inner surface 4 and a side surface 5. The ring also has a radial thickness, which is defined as the distance between the inner and the outer surface.

Referring to FIG. 2, the strap 2 is made of a material that is strong enough to hold the recorder, yet be comfortable when placed around the neck. The knot 7 is tied in the middle of strap 2 after placing one end through the ring 1. Knot 6 is any knot that will neatly secure the ends of the strap 2.

FIG. 3 shows a recorder A supported by the device of the invention. The recorder A has a proximate end and a distal end. The mouth piece (otherwise known as mouthpiece) can be seen at the proximate end, since it has a larger diameter than the adjoining shaft. The recorder A defines a juncture point C between the two ends. The recorder A can be separated at juncture point C into two sections, lower section D and upper section B. The mouthpiece is included in upper section B. The shape of the recorder is one of substantial circular symmetry around an axis. That is why relevant terms like diameter are used, even though the shape of the shaft might not be exactly circular at some points.

When FIG.s 1, 2 and 3 are viewed together, it becomes apparent from scaling considerations that the radial thickness of the ring is about 1/4".

The relationship of the inner surface 4 and the recorder is best seen in FIG. 3. The [the precise geometry of the] inner surface 4 of the ring is circular [a circle] with a diameter [a few

thousandths of an inch] larger than the diameter of the recorder A at the point of the juncture C [of the two pieces B and D of the recorder A]. The diameter of the upper [mouth piece B] section [of the recorder A] increases gradually from the junction [separation] point C to the air hole of the mouth piece [B located just above the mid point of the mouth piece B]. As the recorder diameter thus increases, at some point it becomes larger than the diameter of the inner surface 4. This will cause the ring, as it is being slid from juncture point C towards the mouthpiece, to become lodged at some point before reaching the mouthpiece.

[The strap 2 is made of a thin cloth material that is strong enough to hold the recorder or other desired object, yet be comfortable when placed around the neck. The knot 7 is a simple over-hand knot tied in the middle of strap 2 after placing one end through the ring 1. Knot 6 is any knot that will neatly secure the ends of the strap 2.]

The invention is used as follows: The recorder A is pulled apart to present the two sections. The upper section is selected. The end of the upper section that includes the juncture point C is inserted through the ring. Then the ring is slid up towards the mouthpiece. The ring will thus become lodged at some point before reaching the mouthpiece. Then the recorder is reconnected and released.

Alternately, if the inner diameter of the ring is large enough, the distal end of the recorder is inserted through the ring without pulling apart the recorder. Then the ring is slid up towards the mouthpiece until lodged, as said above.

It is preferred that the inner diameter is such that lodging happens when the device is approximately one inch above the juncture point C.

[The ring 1 is attached to the recorder A by pulling apart the two pieces B and D of the recorder A at the separation point C, or, if appropriate, by sliding it upward from the small end of the recorder without separating. The ring 1 is then slide onto the shaft of the mouth piece B

of the recorder 1 at the end that attaches to the fingering piece D of the recorder A. The ring 1 will slip onto the mouth piece B and then lodge at a point up the shaft between the fingering holes and the mouth piece due to an increase in the circumference of the shaft.]

In the present description numerous details have been set forth in order to provide a more thorough understanding of the present invention. It will be obvious, however, to one skilled in the art that the present invention may be practiced without these specific details. In other instances, well known features have not been described in detail in order to not obscure unnecessarily the present invention.

[d. Description of the Invention. While the invention is described in terms of a device for providing a means of holding or carrying a recorder, it is obvious that the same principle could be extended to applications involving other musical instruments or objects. Therefore, it is understood that many equivalent devices are possible within the scope of the present invention, with different configurations of the ring. Thus, various changes in the details, steps and materials that have been described may be made by those skilled in the art within the principles and scope of the invention herein illustrated and defined in the appended claims. While the present invention has been shown and described herein in what is believed to be the most practical and preferred embodiment, it is recognized that departures can be made therefrom within the scope of the invention, which is therefore not to be limited to the details disclosed herein, but is to be accorded the full scope of the claims so as to embrace any and all equivalent apparatus and methods.]

[e. Operation of Invention.]

[It is therefore an objective of this invention to provide a device for conveniently carrying a recorder securely affixed to a strap that is worn about the neck.]

[Another objective of the invention is the realization of the above mentioned objective

with simple, reliable and inexpensive hardware.]

[In accordance with these and other objectives, the method and apparatus of this invention consist of a ring and an attached strap. The ring is made of durable material and is of sufficient inside diameter so as to fit, after the strap has been secured to the ring, snugly around the shaft of the mouth piece of the recorder. The ring is secured on the recorder by pulling the recorder apart at its dividing point and then slipping the ring around the mouth piece section and sliding it up the shaft until it is securely lodged on the shaft, or, if possible by sliding over the smaller end without separating the recorder. Because the diameter of the shaft, of the mouth piece section, increases from the separation point towards the upper end, the ring will be secure on the recorder shaft approximately one inch from the dividing point. The two pieces of the recorder are then reconnected, if applicable.]

[Various other purposes and advantages of the invention will become clear from its description in the specifications that follows, and from the novel features particularly pointed out in the appended claims. Therefore, to the accomplishment of the objectives described above, this invention consists of the feature hereinafter illustrated in the drawings, fully described in the detailed description of the preferred employment and particularly pointed out in the claims. However, such drawings and description disclose only some of the various ways in which the invention may be practiced.]